

Official File: PCT/DE99/01350

Attorney's File: K 2675

Amended Claims

1. A multivalent F_v antibody construct having at least four variable domains which are linked with one another via the peptide linkers 1, 2 and 3, wherein the peptide linkers 1 and 3 have 0 to 10 amino acids.
2. The F_v antibody construct according to claim 1, wherein the peptide linkers 1 and 3 have the amino acid sequence GG.
3. The F_v antibody construct according to claim 1 or 2, wherein the F_v antibody construct is bivalent.
4. The F_v antibody construct according to claim 3, wherein the peptide linker 2 has 11 to 20 amino acids.
5. The F_v antibody construct according to claim 3 or 4, wherein the peptide linker 2 has the amino acid sequence (G₄S)₄.
6. The F_v antibody construct according to claim 1 or 2, wherein the F_v antibody construct is tetravalent.
7. The F_v antibody construct according to claim 6, wherein the peptide linker 2 has 3 to 10 amino acids.

1. A multivalent F_v antibody construct having at least four variable domains which are linked with one another via the peptide linkers 1, 2 and 3, wherein the peptide linkers 1 and 3 have 0 to 10 amino acids.

8. The F_v antibody construct according to claim 6 or 7, wherein the peptide linker 2 comprises the amino acid sequence GGPGS.
9. The F_v antibody construct according to any of claims 1 to 8, wherein the F_v antibody construct is multispecific.
10. F_v antibody construct according to claim 9, wherein the F_v antibody construct is bispecific.
11. The F_v antibody construct according to any of claims 1 to 8, wherein the F_v antibody construct is monospecific.
12. A method of producing the multivalent F_v antibody construct according to any of claims 1 to 11, wherein DNAs coding for the peptide linkers 1, 2 and 3 are ligated with DNAs coding for the four variable domains of an F_v antibody construct such that the peptide linkers link the variable domains with one another and the resulting DNA molecule is expressed in an expression plasmid.
13. Expression plasmid coding for the multivalent F_v antibody construct according to any of claims 1 to 11.
14. The expression plasmid according to claim 13, namely pDISC3x19-LL.
15. The expression plasmid according to claim 13, namely pDISC3x19-SL.
16. The expression plasmid according to claim 13, namely pPIC-DISC-LL.

21. Use according to claim 20, wherein the diseases are viral, bacterial or tumoral diseases.

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